Community Experience Distilled

# OpenStack Administration with Ansible

Design, build, and automate 10 real-world OpenStack administrative tasks with Ansible

Walter Bentley

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# [Pdf Openstack Administration With Ansible 2 Second Edition](#)

**James Freeman,Jesse Keating**

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   **Learning Ansible 2 - Second Edition** Fabio Alessandro Locati,2016 Learn everything you need to manage and handle your systems with ease with Ansible 2 using this comprehensive guideAbout This Book Simplify the automation of applications and systems using the newest version of Ansible Get acquainted with fundamentals of Ansible such as playbooks modules and various testing strategies A comprehensive learning guide that provides you with great skills to automate your organization s infrastructure using Ansible 2Who This Book Is ForThe book is for sys admins who want to automate their organization s infrastructure using Ansible 2 No prior knowledge of Ansible is required What You Will Learn Set up Ansible 2 and an Ansible 2 project in a future proof way Perform basic operations with Ansible 2 such as creating copying moving changing and deleting files and creating and deleting users Deploy complete cloud environments using Ansible 2 on AWS and DigitalOcean Explore complex operations with Ansible 2 Ansible vault e mails and Nagios Develop and test Ansible playbooks Write a custom module and test itIn DetailAnsible is an open source automation platform that assists organizations with tasks such as configuration management application deployment orchestration and task automation With Ansible even complex tasks can be handled easier than before In this book you will learn about the fundamentals and practical aspects of Ansible 2 by diving deeply into topics such as installation Linux BSD and Windows Support playbooks modules various testing strategies provisioning deployment and orchestration In this book you will get accustomed with the new features of Ansible 2 such as cleaner architecture task blocks playbook parsing new execution strategy plugins and modules You will also learn how to integrate Ansible with cloud platforms such as AWS The book ends with the enterprise versions of Ansible Ansible Tower and Ansible Galaxy where you will learn to interact Ansible with different OSes to speed up your work to previously unseen levelsBy the end of the book you ll able to leverage the Ansible parameters to create expeditious tasks for your organization by implementing the Ansible 2 techniques and paradigms Style and approachThis book is a step by step learning guide on the all new Ansible 2 which is an ideal configuration management tool     <u>Learning Ansible 2</u> Fabio Alessandro Locati,2016-11-21 Learn everything you need to manage and handle your systems with ease with Ansible 2 using this comprehensive guide About This Book Simplify the automation of applications and systems using the newest version of Ansible Get acquainted with fundamentals of Ansible such as playbooks modules and various testing strategies A comprehensive learning guide that provides you with great skills to automate your organization s infrastructure using Ansible 2 Who This Book Is For The book is for sys admins who want to automate their organization s infrastructure using Ansible 2 No prior knowledge of Ansible is required What You Will Learn Set up Ansible 2 and an Ansible 2 project in a future proof way Perform basic operations with Ansible 2 such as creating copying moving changing and deleting files and creating and deleting users Deploy complete cloud environments using Ansible 2 on AWS and DigitalOcean Explore complex operations with Ansible 2 Ansible vault e mails and Nagios Develop and test Ansible playbooks Write a custom module and

test it In Detail Ansible is an open source automation platform that assists organizations with tasks such as configuration management application deployment orchestration and task automation With Ansible even complex tasks can be handled easier than before In this book you will learn about the fundamentals and practical aspects of Ansible 2 by diving deeply into topics such as installation Linux BSD and Windows Support playbooks modules various testing strategies provisioning deployment and orchestration In this book you will get accustomed with the new features of Ansible 2 such as cleaner architecture task blocks playbook parsing new execution strategy plugins and modules You will also learn how to integrate Ansible with cloud platforms such as AWS The book ends with the enterprise versions of Ansible Ansible Tower and Ansible Galaxy where you will learn to interact Ansible with different OSes to speed up your work to previously unseen levels By the end of the book you ll able to leverage the Ansible parameters to create expeditious tasks for your organization by implementing the Ansible 2 techniques and paradigms Style and approach This book is a step by step learning guide on the all new Ansible 2 which is an ideal configuration management tool     Ansible Lorin Hochstein,Rene Moser,2017 Among the many configuration management tools available Ansible has some distinct advantages it s minimal in nature you don t need to install anything on your nodes and it has an easy learning curve With this updated second edition you ll learn how to be productive with this tool quickly whether you re a developer deploying code to production or a system administrator looking for a better automation solution     Mastering Ansible Jesse Keating,2015-11-24 Design develop and solve real world automation and orchestration needs by unlocking the automation capabilities of Ansible About This Book Discover how Ansible works in detail Explore use cases for Ansible s advanced features including task delegation fast failures and serial task execution Extend Ansible with custom modules plugins and inventory sources Who This Book Is For This book is intended for Ansible developers and operators who have an understanding of the core elements and applications but are now looking to enhance their skills in applying automation using Ansible What You Will Learn Understand Ansible s code and logic flow Safeguard sensitive data within Ansible Access and manipulate complex variable data within Ansible playbooks Handle task results to manipulate change and failure definitions Organize Ansible content into a simple structure Craft a multi tier rollout playbook utilizing load balancers and manipulating your monitoring system Utilize advanced Ansible features to orchestrate rolling updates with almost no service disruptions Troubleshoot Ansible failures to understand and resolve issues Extend Ansible with custom modules plugins or inventory sources In Detail Automation is critical to success in the world of DevOps How quickly and efficiently an application deployment can be automated or a new infrastructure can be built up can be the difference between a successful product or a failure Ansible provides a simple yet powerful automation engine Beyond the basics of Ansible lie a host of advanced features which are available to help you increase efficiency and accomplish complex orchestrations with ease This book provides you with the knowledge you need to understand how Ansible works at a fundamental level and leverage its advanced capabilities You ll learn how to encrypt Ansible content at

rest and decrypt data at runtime You will master the advanced features and capabilities required to tackle the complex automation challenges of today and beyond You will gain detailed knowledge of Ansible workflows explore use cases for advanced features craft well thought out orchestrations troubleshoot unexpected behaviour and extend Ansible through customizations Finally you will discover the methods used to examine and debug Ansible operations helping you to understand and resolve issues Style and approach A clear practical guide that covers best practise system architecture and design aspects that will help you master Ansible with ease    **Mastering Ansible** James Freeman,Jesse Keating,2021-12-09 Design develop and solve real world automation and orchestration problems by unlocking Ansible s automation capabilities Key FeaturesCompletely revised and updated for Ansible 4 0 and beyondTackle complex automation challenges with the newly added features in AnsibleLearn about the rapidly expanding field of network automation using Ansible with the help of practical examples for configuring network devicesBook Description Ansible is a modern YAML based automation tool built on top of Python one of the world s most popular programming languages with a massive and ever growing user base Its popularity and Python underpinnings make it essential learning for all in the DevOps space This fourth edition of Mastering Ansible provides complete coverage of Ansible automation from the design and architecture of the tool and basic automation with playbooks to writing and debugging your own Python based extensions You ll learn how to build automation workflows with Ansible s extensive built in library of collections modules and plugins You ll then look at extending the modules and plugins with Python based code and even build your own collections ultimately learning how to give back to the Ansible community By the end of this Ansible book you ll be confident in all aspects of Ansible automation from the fundamentals of playbook design to getting under the hood and extending and adapting Ansible to solve new automation challenges What you will learnGain an in depth understanding of how Ansible works under the hoodGet to grips with Ansible collections and how they are changing and shaping the future of AnsibleFully automate the Ansible playbook executions with encrypted dataUse blocks to construct failure recovery or cleanupExplore the playbook debugger and Ansible consoleTroubleshoot unexpected behavior effectivelyWork with cloud infrastructure providers and container systemsWho this book is for If you are an Ansible developer or operator who has a detailed understanding of its core elements and applications but are now looking to enhance your skills in applying automation using Ansible this book is for you Prior experience working with core system administration tasks on Linux and basic familiarity with concepts such as cloud computing containers network devices and fundamentals of a high level programming language will help you make the most of this book    Mastering Ansible James Freeman,Jesse Keating,2019-03-25 Design develop and solve real world automation and orchestration problems by unlocking the automation capabilities of Ansible Key FeaturesTackle complex automation challenges with the newly added features in Ansible 2 7Book Description Automation is essential for success in the modern world of DevOps Ansible provides a simple yet powerful automation engine for tackling complex automation challenges This book will take you on a journey that will help

you exploit the latest version s advanced features to help you increase efficiency and accomplish complex orchestrations This book will help you understand how Ansible 2 7 works at a fundamental level and will also teach you to leverage its advanced capabilities Throughout this book you will learn how to encrypt Ansible content at rest and decrypt data at runtime Next this book will act as an ideal resource to help you master the advanced features and capabilities required to tackle complex automation challenges Later it will walk you through workflows use cases orchestrations troubleshooting and Ansible extensions Lastly you will examine and debug Ansible operations helping you to understand and resolve issues By the end of the book you will be able to unlock the true power of the Ansible automation engine and tackle complex real world actions with ease What you will learnGain an in depth understanding of how Ansible works under the hoodFully automate Ansible playbook executions with encrypted dataAccess and manipulate variable data within playbooksUse blocks to perform failure recovery or cleanupExplore the Playbook debugger and the Ansible ConsoleTroubleshoot unexpected behavior effectivelyWork with cloud infrastructure providers and container systemsDevelop custom modules plugins and dynamic inventory sourcesWho this book is for This book is for Ansible developers and operators who have an understanding of its core elements and applications but are now looking to enhance their skills in applying automation using Ansible

**Practical Ansible 2** Daniel Oh,James Freeman,Fabio Locati,2020 Leverage the power of Ansible to gain complete control over your systems and automate application deployment Key Features Use Ansible 2 9 to automate and control your infrastructure Delve into advanced functionality such as plugins and custom modules in Ansible Automate and orchestrate major cloud platforms such as OpenStack AWS and Azure using Ansible Book Description Ansible enables you to automate software provisioning configuration management and application roll outs and can be used as a deployment and orchestration tool While Ansible provides simple yet powerful features to automate multi layer environments using agentless communication it can also solve other critical IT challenges such as ensuring continuous integration and continuous deployment CI CD with zero downtime In this book you ll work with Ansible 2 9 and learn to solve complex issues quickly with the help of task oriented scenarios You ll start by installing and configuring Ansible on Linux and macOS to automate monotonous and repetitive IT tasks and get to grips with concepts such as playbooks inventories and network modules As you progress you ll gain insight into the YAML syntax and learn how to port between Ansible versions In addition to this you ll also understand how Ansible enables you to orchestrate multi layer environments such as networks containers and the cloud By the end of this Ansible book you ll be well versed in writing playbooks and other related Ansible code to overcome just about all of your IT challenges from infrastructure as code provisioning to application deployments and even handling the mundane day to day maintenance tasks that take up so much valuable time What you will learn Become familiar with the fundamentals of the Ansible framework Set up role based variables and dependencies Avoid common mistakes and pitfalls when writing automation code in Ansible Extend Ansible by developing your own modules and plugins Contribute to the

Ansible project by submitting your own code Follow best practices for working with cloud environment inventories Troubleshoot issues triggered during Ansible playbook runs Who this book is for If you are a DevOps engineer administrator or any IT professional looking to automate IT tasks using Ansible this book is for you Prior knowledge of Ansible is not necessary **Ansible for DevOps** David Johnson,2016-11-28 This book is an exploration of Ansible for DevOps The application of DevOps in software use and development of software is on the rise hence you need to know how to apply it in Ansible Various strategies that can be used for deployments with Ansible are discussed in this book This book guides you on how to perform a Single server deployment in Ansible You will also be guided on how to perform Zero downtime multi server deployments as well as Capistrano style and blue green deployments Examples have been given using apps developed in various programming languages Most commands in Ansible are viewed to be complex and take a long time to complete However by use of Ad hoc commands one can perform a number of tasks easily and quickly This book will help you understand how to use Ad hoc commands for user and group management as well as Cron jobs which are good when it comes to the scheduling of the various tasks in Ansible This book guides you on to use Ad Hoc commands for setting up and managing cron job in Ansible You will also be shown how to use these commands for configuration of both database and application servers

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